What is claimed is:

1.    An ISDN rerouting device provided with a first and a second IP-based PBX systems that are connected to a first or a second telephone terminal, respectively, via telephone lines, and further, that are connected to each other via an IP network and ISDN; wherein:

said first and second IP-based PBX systems establish a communication call between said first telephone terminal and said second telephone terminal via said ISDN when congestion occurs in said IP network.

2.    An ISDN rerouting device according to claim 1 wherein said first and second IP-based PBX systems are provided with:

an LC (line circuit) for linking with said first or said second telephone terminal;

a TDSW (time division switch) for switching connection paths;

an IP-TRK (trunk circuit) for both interfacing with said IP network and detecting the occurrence of congestion in said IP network;

an ISDN I/F for interfacing with said ISDN; and

a CPU for controlling switching of said TDSW (time division switch) when said IP-TRK (trunk circuit) detects the occurrence of congestion in said IP network.

3.     An ISDN rerouting device according to claim 1
wherein said CPU establishes a communication call between
said first telephone terminal and said second telephone
terminal based on information stored in a memory.

4.     An ISDN rerouting device according to claim 2
wherein said CPU establishes a communication call between
said first telephone terminal and said second telephone
terminal based on information stored in a memory.

5.     An ISDN rerouting device according to claim 3
wherein said memory stores:

a mapping table containing IP addresses and ISDN
addresses; and

5     a rerouting information table containing:

originating telephone numbers or calling party
numbers, destination telephone numbers or called party
numbers, IP addresses of destination IP-TRK, and ISDN
addresses that correspond to IP addresses of destination

10     IP-TRK.

6.     An ISDN rerouting device according to claim 4
wherein said memory stores:

a mapping table containing IP addresses and ISDN
addresses; and

5      a rerouting information table containing:

       originating telephone numbers or calling party

numbers, destination telephone numbers or called party

numbers, IP addresses of destination IP-TRK, and ISDN

addresses that correspond to IP addresses of destination

10     IP-TRK.


       7.    An ISDN rerouting method that is provided

with: first and second IP-based PBX systems that are both

connected to a first or a second telephone terminal,

respectively, via telephone lines and that are connected

5      to each other via an IP network and ISDN; and that

reroutes to said ISDN when congestion occurs in said IP

network; comprising:

       a first step of establishing, by means of said first

and second IP-based PBX systems, a communication call

10     between said first telephone terminal and said second

telephone terminal via said ISDN when congestion occurs

in said IP network.


       8.    An ISDN rerouting method according to claim 7

wherein said first step comprises:

       a second step of linking with said first or second

telephone terminal by means of an LC (line circuit);

5      a third step of switching the connection path by

means of a TDSW (time division switch);

a fourth step of both interfacing with said IP
network and detecting the occurrence of congestion in the
IP network by means of an IP-TRK (trunk circuit);

10 a fifth step of interfacing with said ISDN by means
of an ISDN I/F; and

a sixth step of effecting switching control of said
TDSW (time division switch) by means of a CPU when said
IP-TRK (trunk circuit) detects the occurrence of

15 congestion in said IP network.


9. An ISDN rerouting method according to claim 8
wherein said sixth step includes a seventh step of
establishing a communication call between said first
telephone terminal and said second telephone terminal

5 based on information that is stored in memory.


10. An ISDN rerouting method according to claim 9
wherein said seventh step includes an eighth step of
storing in said memory: a mapping table having IP
addresses and ISDN addresses; and a rerouting information

5 table having originating telephone numbers or calling
party numbers, destination telephone numbers or called
party numbers, IP addresses of destination IP-TRK, and
ISDN addresses corresponding to IP addresses of
destination IP-TRK.